



Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
P0039877	ACI001-VC	1	1	Net 30	M4140H-R2.750	4140 Round Bar 2.750 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/A-434-BC/ A193-03-GRADE B7-A29- 03/A322-91 OR UNS#- G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft					12	5/18/2018	11	S072715	Stock	5/19/2018	\$ 36.74 / ft
		2			M6061T6B0.750X05.000	6061T6 Bar 0.750 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					12		S072716	Stock	5/19/2018	\$ 15.41 / ft	
		3			M6061T6B0.500X04.500	6061T6 Bar 0.500 X 4.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					12		S072717	Stock	5/19/2018	\$ 12.16 / ft	
		4			M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					40		40	S072718	Stock	5/19/2018	\$ 4.74 / ft
		5			M6061T6B1.500X02.500	6061-T6 Bar 1.50 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					24		24	S072719	Stock	5/19/2018	\$ 15.46 / ft
		6			M6061T6B2.250X2.250	6061T6 Bar 2.250 X 2.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					12		12	S072720	Stock	5/19/2018	\$ 45.92 / ft
		7			M6061T6S.188	6061-T6 .188 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf					32		32	S072721	Stock	5/19/2018	\$ 12.11 / sf
		8			M6061T6S.080	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf					192		192	S072722	Stock	5/19/2018	\$ 5.66 / sf



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039877

E-MAILED
MAY 11 2018

Supplier:	ACI001-VC Acier Ouellette Inc. 935 Boul. Du Havre Valleyfield QC J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696	PO No:	PO039877
		PO Date:	5/11/18
		Due Date:	5/18/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lavoie, Chantal Phone: clavoie@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	quotation sou0105054

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4140H-R2.750		4140 Round Bar 2.750 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/A-434-BC/A193-03-GRADE B7/A29-03/A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$36.744166/ft	\$440.93
2	M6061T6B0.750X05.000		6061T6 Bar 0.750 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$15.41/ft	\$184.92
3	M6061T6B0.500X04.500		6061T6 Bar 0.500 X 4.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$12.156666/ft	\$145.88

PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B0.750X01.500		6061-T6 Bar .750 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	40 ft	0 ft	40 ft	\$4.738/ft	\$189.52
5	M6061T6B1.500X02.500		6061-T6 Bar 1.50 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	24 ft	0 ft	24 ft	\$15.462916/ft	\$371.11
6	M6061T6B2.250X2.250		6061-T6 Bar 2.250 X 2.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$45.91666/ft	\$551.00
7	M6061T6S.188		6061-T6 .188 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	5/18/18	32 sf	0 sf	32 sf	\$12.108125/sf	\$387.46
8	M6061T6S.080		6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	5/18/18	192 sf	0 sf	192 sf	\$5.658802/sf	\$1,086.49
9	M17-4-R0.750		17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	5/18/18	24 ft	0 ft	24 ft	\$8.6508333/ft	\$207.62

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	5/23/18	24 ft	0 ft	24 ft	\$24.5125/ft	\$588.30
11	M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	5/18/18	12 ft	0 ft	12 ft	\$8.4358333/ft	\$101.23
12	MT-4140-S-1.250X2.000		AISI 4140 Steel Bar : MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395	Firmed	5/18/18	6 ft	0 ft	6 ft	\$36.16/ft	\$216.96

Grand Total: \$4,471.42

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Plex 5/11/18 11:39 AM dart.lavoie.chantal

DELIVERY - CLIENT

CO00089113



ACTIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

OUELLETTE VALLEYFIELD

Salesman

Josianne Bourdon

Carrier

Credit Terme

Net 30 Days

Your order N°

3987

Processed by

Instruction	F-M	Delivery Route	5	Page	Internal Use Only								
					Weight	Qty	U/M	CMD	EXP	B/O	IN	I	
1	ROUND 4140 HEAT TREAT 2 3/4 (R) R4140-234H	4931			253.56	12.00	PL_SCLB						DAS 11 9-89
	<i>1 X 12' LINE 1 Heat : L7356</i>												MAY 19 2018
	<i>COUPE A LA SCIE</i>												
	SCIE	1											
2	FLAT ALU 3/4 X 5 6061-T6 *	2598			52.69	12.00	PL_SCLB						DAS 11 9-89
	<i>Heat : 16030232B</i>												MAY 19 2018
3	FLAT ALU 1/2 X 4 1/2 6061-T6 NS FAL-12412	10194			31.72	12.00	PL_SCLB						DAS 11 9-89
	<i>1 X 12' LINE 3</i>												MAY 19 2018

DELIVERY - CLIENT

CO00089113



ACIER OUELLETTE INC.

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2018/05/11
Delivery date **2018/05/18**

Your order N° 39877

Salesman Josianne Bourdon

Carrier OUELLETTE VALLEYFIELD

Credit Termes Net 30 Days

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to
, Ontario,

Instruction F-M

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5
Page 2

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only					
				CMD	EXP	B/O	IN	I	S	C	OUT
AC16272-TH-16/05 <i>Heat : 02J171116B / 02J171117B</i>											
4 FLAT ALU 3/4 X 1 1/2 6061-T6 *	54.00	40.00	PI_\$CLB				200'	40'			
FAL-34112 <i>2584</i>											
2 X 20' LINE 4 <i>Heat : 68549</i>											
5 FLAT ALU 1 1/2 X 2 1/2 6061-T6 *	105.74	24.00	PI_\$CLB				200'	24'			
FAL-112212 <i>2439</i>											
2 X 12' LINE 5 <i>Heat : 3B6350</i>											
6 SQUARE ALU 2 1/4 6061-T6 NS	71.36	12.00	PI_\$CLB				1x12'	12			
CAL-214 <i>10543</i>											
1 X 12' LINE 6 <i>AC16272-TH-16/05</i>											

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT

CO00089113



ACTER OUELLETTE INC.

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Customer N°

CLI0001056

Date

2018/05/11

Delivery date

2018/05/18

Your order N°

3987

Salesman

Processed by

Josianne Bourdon

Carrier

Credit Terme

Net 30 Days

Instruction F-M

Delivery Route 5

Page

3

Product Description

Weight

CMD

EXP

B/O

IN

I

S

C

OUT

Heat : Z0079020		8	ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 <i>1 X 4' X 8' LINE 7 Heat : 6161503</i>	4271	85.92	32.00	PI2_CLB	14 4X8'	① 32 P.2	DAS MAY 19 2018 9:09
<i>Heat : 010083429/7 X 4 4 X 4' X 12' LINE 8 Heat : 010083429/7 X 4 TRANSIT ST-JEROME LE 14/05</i>		9	ALU SHEET .081 (12G) 6061-T6 (4 X 12) FEAL-0814126061 3195	219.07	192.00	PI2_CLB	44 4X12'	192 P.2	DAS MAY 19 2018 9:09	
		10								

DELIVERY - CLIENT

C000089113



ACIER OUELLETTE INC.

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

</div

DELIVERY - CLIENT

CO00089113



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935, Boul. du Havre

Saberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Your order N° 3987

Customer N° CLI0001056
Date 2018/05/11

Delivery date 2018/05/18

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Salesman
OUELLETTE VALLEYFIELD

Carrier

Credit Terme

Net 30 Days

Instruction F-M

Delivery Route 5

Page 5

Product Description

Weight

Qty

U/M

PCS NB

Internal Use Only

Heat : 620M

3

14 PLATE 4140 HEAT TREAT 1 1/4 NS

P4140-114H

8506

1 X 2" X 72" LINE 12

AC16274-FU-17/05

51.05

1.00

PI2-\$CLB

IN

I

S

C

OUT

Total Weight (Lbs) : 1 074.80

NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Prepared By :	Verified By :
Delivered By :	Time
18/05/18	
Customer's Signature	
Date	

Total (\$CAD)

CERTIFICATE OF TEST

CERTIFICAT D'ESSAIS

4931

R-4140-234H

15955

2P

Page 01 of 02

Certification Date
7-MAY-2018

50901

Invoice Number
S706881CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00015955

PART NUMBER/NUMÉRO DE PIÈCE

506439

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIELD QC J6S

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN

2-3/4 RD X 20' R/L Line Total: 485 LB

HEAT: L7356 ITEM: 506439

Specifications:

ASTM A193 GR B7 16
ASTM A29 15
EN 10204 3.1 04ASTM A434 GR BC 15
ASTM A962 16AASME SA193 GR B7 15
ASTM E381 12

CHEMICAL ANALYSIS

C	MN	P	S	SI	CR	NI	MO
0.41	0.97	0.0090	0.016	0.26	0.98	0.14	0.20
CU	AL	V					
0.22	0.026	0.007					

RCPT: R362671

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	120902.0	138322.0	18.0	56.7	299

GRAIN SIZE : 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mencées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE L'ESPINE

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST

CERTIFICAT D'ESAIIS

Page 02 of 02

Certification Date
7-MAY-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00015955

Invoice Number
S706881

PART NUMBER/NUMÉRO DE PIÈCE
506439

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2-3/4 RD X 20' R/L Line Total: 485 LB
HEAT: L7356 ITEM: 506439

STRAND CAST REDUCTION RATIO 72.7 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENITIZED 1625F .1 HRS
WATER QUENCHED
TEMPERED 1300F .2 HRS
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

MILL TEST

MANIFEST NO.

BILL TO	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT
	1	S 23758	Oct/13/2016
SHIP TO	CUSTOMER PO	ALLOY	SALESMAN
ACIER OUELLETTE	100664	T6	HOUSE ACCOUNTS
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION	CERTIFICATION
FLAT BAR 5" X 3/4" SC	DT23758		MILL TEST ASTM B221-14

FAL 345

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Oct/06/2016	41.30	38.20	11.10	85.9,86.1,86.3	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Se	Co	Al	Other
16030232B	A.11	6061	0.53	0.18	0.22	0.03	0.8	0.08	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

891113

Dant

16270 N



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

OUR ORDER NUMBER	ITEM
938725	1

BILL TO
Prince George, VA 23875
SHIP TO

MANIFEST NUMBER
354624
CUSTOMER PO
5400379606
CUSTOMER PART NUMBER
ALREC00548

DUE NUMBER
RB0456
ALLOY / TEMPER
6061-T6514
DESCRIPTION
SCRB .500 x 4 500

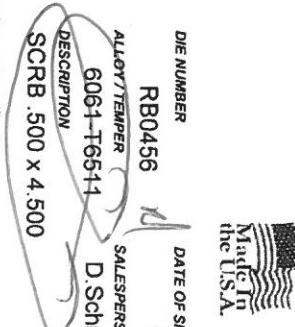
DATE OF SHIPMENT
1/10/2018
SELLER/PERSON
D Schroeder (Canada)

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification vision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified

This product is RoHS-2, REACH, and DFARS compliant.



CERTIFICATION	
ASTM-B221-14 StencilCont	SPECIFICATION
AMS-QQA-2008 Rev-A	SPECIFICATION
RoHS 2011/65/EU Compliant	

Mechanical Properties

Test	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	1/17/18	min 41.20 max 41.30	min 36.20 max 36.90	min 23.30 max 24.40

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
J2J171116B	201721131	6061	0.62	0.25	0.19	0.07	0.86	0.07	0.03	0.02	97.88	0.05	0.15	United States of America	
J2J171117B	201721131	6061	0.62	0.27	0.20	0.06	0.86	0.07	0.04	0.03	97.86	0.05	0.15	United States of America	

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 1/10/2018

Rev 7/20/17

#2584

FAT-34112

TDA-2104
49670

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande **7011453**

bon de commande / Purchase order # : **OU-47404**

de matrice / Die # : **MS 16477**

Description : **1 1/2" X 3/4" FLAT BAR**

Alliage & trempage / Alloy & temper: **6061 T6** Longueur / Lenght : **6097 mm**

Contrôle / Control # : **84119-2**

Coulée / Cast # : **68549**

Dureté Rockwell E /

Rockwell E hardness : **94 HRE**

Min. requis /

Min. required : **88 HRE**

Max. permis /

Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,28 - 0,60	0,13 - 0,25	0,10 Max	0,10 Max	0,35 - 0,73	0,10 Max	0,05 Max	0,05 Max
6005	0,68 - 0,72	0,15 - 0,27	0,04 - 0,08	0,06 - 0,08	0,48 - 0,52	0,03 Max	0,05 Max	0,03 Max
6005A	0,65 - 0,75	0,15 - 0,27	0,15 Max	0,20 - 0,30	0,45 - 0,55	0,10 Max	0,05 Max	0,05 Max
6061	0,50 - 0,76	0,13 - 0,29	0,15 - 0,28	0,10 Max	0,80 - 1,00	0,04 - 0,14	0,08 Max	0,05 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	--	0,50 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : **2017-03-10**

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

2439

FAT - 112212

50599

15087

MILL TEST

BILL TO	S/755 9	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	MANIFEST NO.
SHIP TO			S	Oct/19/2017	
LES METAUX SPECIALISES SAMUEL	CUST. PO C74902	ALLOY 6061	TEMPER T6511	SALESMAN HOUSE ACCOUNTS	210182 - 9 379633 MADE IN CANADA
SODESCRIPTION 2.5 x 1.5 FB	CUSTOMER PART NUMBER V836661	PART DESCRIPTION 2.5 x 1.5 FB			CERTIFICATION ASTM B221-14 - AMS QQA 200/8

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Oct/13/2017	42.30	38.40	12.80	89.0,89.2,89.5	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
1 / 3B6350	A.11	6061	0.6	0.15	0.21	0.04	0.87	0.07	0	0.01	0.02	0	0	0	0	0	0	0	0	0	0	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

Tulsiram Mohabir
Quality Control Manager

89113

Dart

16272N

KAISER ALUMINUM FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
5400396921-3		ALSQ00023		2.250 SC SQ BAR			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER:	ALLOY:	TEMPER:	
6051775	003	04/12/2018		Z00779020	6061	T6511	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		DIAM/DAF/THKNS:	WIDTH:	LENGTH:	
1000.000 LB	14.000 PCS	622454				12.000 FT	
SHIP TO:		SOLD TO:					

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00779020	0001	0001	48.0	44.3	13.0	RE	94	N/A
Z00779020	0001	0002	45.2	41.4	10.2	RE	94	N/A
Z00779020	0001	0003	47.1	43.4	14.6	RE	93	N/A
Z00779020	0002	0001	47.7	43.9	10.1	RE	93	N/A
Z00779020	0002	0002	46.8	43.2	10.2	RE	93	N/A
Z00779020	0002	0003	48.4	44.8	13.2	RE	94	N/A
Z00779020	0002	0004	47.2	43.6	13.4	RE	93	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108298	.77	.27	.29	.10	.95	.09	.02	.02	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00330009
Kaiser Order Number: 6051775

Line Item: 003

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00330009

Kaiser Order Number: 6051775

Line Item: 003

#4271

FICAL - 316486061

P.O. 14245
50264**ALNAN MILL TEST CERTIFICATE**ASTM B209-2010, Aluminum Association Standard,
AMS4027 and AMS QQA 250/11**COUNTRY OF MELT AND MANUFACTURE: CHINA**

Buyer: METAL EXCHANGE CORPORATION.	Lot No.:	Product:	Date:
Certificate No.:	P-161216-6269	Dimensions:	0.188" x 48.5" x 6.5"(inches) (179pc's)
Release No.:	12900029 <th>Alloy/Temper:</th> <td>6061/T6</td>	Alloy/Temper:	6061/T6
Customer Order No.:	ALNAN-XS16-FR617(1071681)	Total Quantity:	7.001MT

Mechanical Properties

Lot No.	Cast No.	Metal ID	Alloy	Spec. No.	Tensile Strength (KSI)	Yield Strength (KSI)	Elongation A50mm (%)	Bend	Interc	Extror	Hardness (HB)
					45.7-45.8	41.2-41.3	16.5-17.0	Qualified	-	-	
6101603	-	6061/T6	-	-	-	-	-	-	-	-	-

We hereby certify that the material described above has been tested and complies with the terms of the order contract.
The inspection results indicated in the chemical composition have been obtained from cast analysis.

Issue by

[Q.A.51]

Review by

[Q.A.10]

Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89055159 03 / 4

Rev.: 0

Seite / page: 1 von / of 2

Datum / date: 2017 06 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Auftraggeber / customer:	Bestell Nr. / order no.: 5400342513-R01 Datum / date: 2017 03 02
Warenempfänger / consignee:	Auftragsbest. Nr. / order confirm no.: 130077 Datum / date: 2017 04 13
CBS Atlanta 1500 Cherokee Pkwy ACWORTH GA 30102-1603 USA	Lieferschein Nr. / delivery note: 89055159 Datum / date: 2017 07 31

Produkt / product	Bedingungen / terms
Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim / dim.: [inch]: 0,080x48,00x144,00 Kundenartikel Nr. / cust. article no.: ALFLR01650	Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/11, 08.1997 ASTM B209 - 14 AMS 4027N, 07.2008 ASME SB-209, 2011a Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr/Los Lot/No.	Teillost Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.	Gewicht netto weight net	Stk. pcs.
05	34097/01	00	01/0083429/7	6061	1300770006	4056,437 lbs	75

Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES))											
Guss Nr. / cast no. 01/0083429/7	material 6061	spec. min.									Others Each Total
		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti		
		0,40	-	0,15	-	0,80	0,04	-	-		
		0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15		
		spec. max.									
		0,64	0,46	0,23	0,11	0,87	0,17	0,08	0,04		
		actual									

Zugprüfung LT / tensile test LT							
BNr/Los Lot/No.	Zustand temper	Richtung direction	Tests	UTS	YS	A2"	
				[ksl]	[ksl]	[%]	
34097/01	T6	LT	2	from	42,0	35,0	10
34097/01	T6	LT		spec.min.	-	-	
34097/01	T6	LT		spec.max.	-	-	
34097/01	T6	LT	2	to	47,4	40,0	15
34097/01	T6	LT		from	47,4	40,0	16

Sonstige Prüfungen / other tests							
Biegeversuch: OK. / Transverse bend test: OK.							
Maßkontrolle: OK. / Dimensional Check: OK.							
Oberfläche: OK. / Surface inspection: OK.							



Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 89055159 03 / 4

Rev.: 0

Seite / page: 2 von / of 2

Datum / date: 2017 06 28

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Bemerkungen / notes

Gegossen und gefertigt in Österreich / Country of melt and manufactured in Austria

Werksachverständiger / factory specialist	E-Mail / e-mail
josef.klampfer	josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

CERTIFICATE OF TEST CERTIFICAT D'ESAIS

PO. 11395

9268

RSS-34174

49170

Page 01 of 02

Certification Date
27-NOV-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00011395

Invoice Number
T373050

PART NUMBER/NUMÉRO DE PIÈCE

510517

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALEYFIELD		DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1	SALABERRY-DE- VALLEYFIE QC J6S	

Description: 17-4 SOL ANN CF BAR

ASTM A564

3/4 RD X 12' R/L

Line Total: 185 LB

HEAT: 9SG0264-G5011

ITEM: 510517

and Specifications:

AMS 5643 U
ASTM A388/A388M 16
ISO 15156-1 09*
EN 10204 3.1
ASTM E340

ASTM A564 T630 13
AMS 2303 F
*EXCEPT FOR H2S
ASTM F899 12B
AMS 2315

ASME SA564 T630 13
NACE MR0175 09
CORROSION TEST)
API 6A APPENDIX M
ASTM E112

CHEMICAL ANALYSIS

C	SI	MN	P	S	NI	CR	MO
0.01	0.34	0.62	0.017	0.003	4.69	15.35	0.23
CU	NBTA	NB	TA				
3.30	0.27	0.26	0.005				

RCPT: R201370

COUNTRY OF ORIGIN : TAIWAN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					321
DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
DEV: H900 L	KSI 182.0	KSI 201.0	IN 02 IN 17.0	53.0	428

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport n'a pas rencontré les spécifications décrites ci-haut.

Jeanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST

CERTIFICAT D'ESAIS

Page 02 of 02

Certification Date
27-NOV-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00011395

Invoice Number
T373050

PART NUMBER/NUMÉRO DE PIÈCE
510517

SOLD TO:	ACIER OUELLETTE INC.	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1	DIVISION SALABERRY DE VALLEYFIELD 935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD QC J6S 5L1
SHIP TO:		
EXPÉDIÉ À:		
Description:	17-4 SOL ANN CF BAR 3/4 RD X 12' R/L	ASTM A564 Line Total: 185 LB
HEAT:	9SG0264-G5011	ITEM: 510517

GRAIN SIZE : 8 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
ULTRASONIC: YES
THERMAL TREATMENT: OK
SOLUTION TREATMENT: 1900 +/- 25 DEG F FOR 30 MIN/INCH
(MINIMUM OF 1/2 HOUR), RAPIDLY COOLED TO BELOW 90
DEG F
MACRO: OK
MICRO1: OK
AMS NO : 2303
SEVERITY : 0.0
FREQUENCY: 0.0

COMMENTS

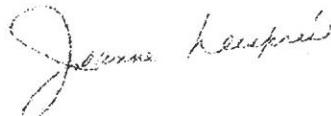
red. ratio 279.6:1
17-4 is the same with aisi 630
free from residual radioactivity

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. Nous certifions que le matériel couvert par ce rapport will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ



North American Stainless Canada Inc
740 Imperial Road North

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9611
(502) 347-6000

Oct 86
1980

MAIL TO:

Customer: 007205 001

SUD TO: 01

Date: 12/20/2017 Page: 1

Your Order: VIM643834

PRODUCT DESCRIPTION:

NHS Order: FN 008/675 02

REMARKS: *Specimens were taken from the same area as the specimens*

KOUNG TEE, ADDITIVE, 100% UHMW
UNS 30300, ASTM A582/12
ANS 5640V TYPE I, QCS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BJ1787	9	1.0000	W	1,298	144.00	56	1	

MECHANICAL PROPERTIES

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

John
12/20/2017

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1606165.080
 DATE: MAY 19 2018

PO / BATCH NO.: 089877/5072722

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 192 ft²
 QUANTITY INSPECTED: 192 ft²
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .080
 THICKNESS RECEIVED: .080
 SHEET SIZE ORDERED: 4'4X12'
 SHEET SIZE RECEIVED: 4X12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	Astm B209
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat # 01/0083429/7 - 63265101
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS 11</u>	SIGNED OFF BY:	
DATE:	<u>9-89 MAY 19 2018</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11

ORAMS 4025 OR 4027
OR ASTM B209

PART NUMBER: M6061T6S | XXX | X | W. WWW | X | THK | WIDTH
C

WHERE ".XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES. OPTIONAL)

EG. 0.063" THICK SHEET = M6061T6S.063

EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

APPROVED

RELEASED
2018 MAR 13 49
E 18 666

2

1

4

88

Order - Factory

COPY C00008913

Product Description	Weight	Qty	UM	Internal Use Only			
				CMD	EXP	B/O	IN
				I	S	C	OUT
8 ALU SHEET .081 (12G) 6061-T6 (4 x 12) FEAL-0814126061 4 X 4' X 12' LINE 8 TRANSIT ST-JEROME LE 14/05	3195	219.07	192.00	P12_\$CLB	4.00		
10 PALETTE PALETTE	7573		0.00				
11 ROUND SS 3/4 17-4PH NS RSS-31174 2 X 12" R/L LINE 9	9268	4500	1.00	UN_\$UN	1.00		
12 SQUARE SS 1 SS303 NS CSS-1303 2 X 12" R/L LINE 10 AC16273-SM-17/05	9512	36.05	24.00	PL_\$CLB	2.00		
13 ROUND SS 1 303 (R) RSS-1303 1 X 12" R/L LINE 11	8519	81.60	24.00	PL_\$CLB	2.00		
14 PLATE 4140 HEAT TREAT 1 1/4 NS P4140-114H 1 X 2" X 72" AC16274-FU-17/05	8506	32.04	12.00	PL_\$CLB	1.00		
SURCHARGE ENERGETIQUE FRAIS ENERGETIQUE				\$	0.00		
Total Weight (LBS) :: 1 074.80				NIR : R-109516-6			
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.				Total (\$CAD)			
Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature	Y	M	D

MANUFACTURED BY THE
HARVEY CO., INC., NEW YORK,
U.S.A.

"Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is accepted by the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the re-possession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time
---------------	---------------	----------------	------

Customer's Signature _____

5 124.97
0.00
5 124.97

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 14140H-R2.750
 DATE: MAY 19 2018

PO / BATCH NO: 039877/5072715

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 11"
 QUANTITY INSPECTED: 11"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.750
 THICKNESS RECEIVED: 2.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>A193</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # L7356</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 MAY 19 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DART

DESIGN <i>RF</i>	DRAWN BY <i>RF</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>RF</i>	APPROVED <i>RF</i>	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

A193-03 - GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA.

E.G. 7/8" ROUND BAR = M4140H-R 0.875

RELEASED
05.03.25 *RF*

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6B0.750X05.000 PO / BATCH NO.: 039877/5072716
 DATE: MAY 19 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>A5tm B221</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Heat # P16030232B</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS 11 9-89</u>	SIGNED OFF BY:	
DATE:	<u>MAY 19 2018</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

△ QQ-A-2258 OR AMS QQ-A-2258 (OR AMS 4117/4128/4115/4116)
OR QQ-A-2008 OR AMS QQ-A-2008 (OR AMS 4160)

△ OR ASTM B211 OR ASTM B221

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△ YY

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.500X04.500 PO / BATCH NO: 039877/5012717
 DATE: MAY 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Astm B221</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Next # 02J17116B / 02J17117B</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4111/74128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

△
B

SPECIFICATION:

PART NUMBER:

M6061T6B	T.TTT	X	WW WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES

"WW WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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 R 2009 -US-U
[Signature]

B

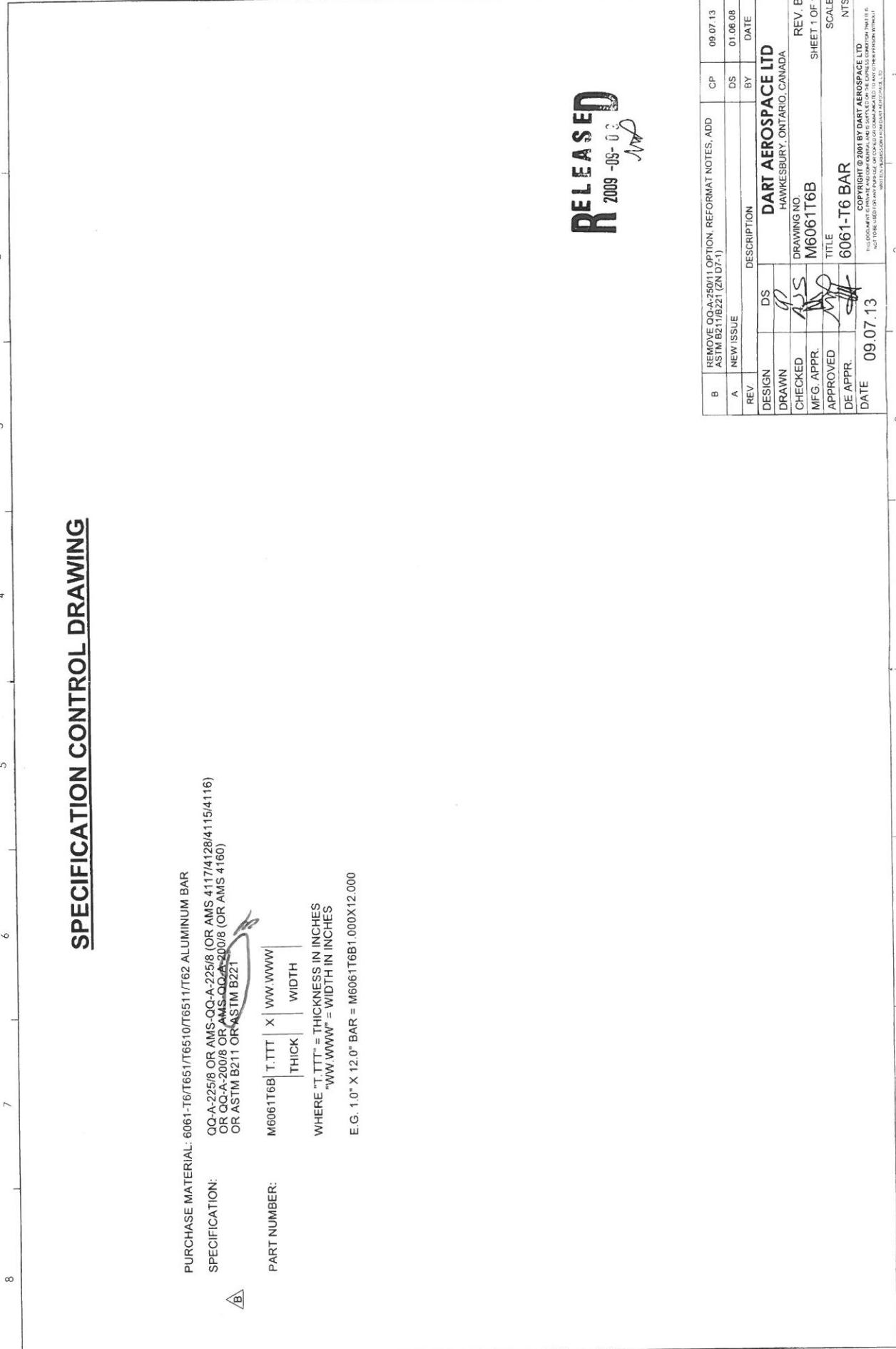
B	REMOVE QQ-A-250111 OPTION REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV		BY	DATE
DESIGN	DS		
DRAWN	<i>AS</i>	HAWKESBURY, ONTARIO, CANADA	REV. B
CHECKED	<i>AS</i>	DRAWING NO.	SHEET 1 OF 1
MFG. APPR.	<i>AS</i>	M6061T6B	SCALE
APPROVED	<i>AS</i>	TITLE	NTS
DE APPR.	<i>AS</i>	6061-T6 BAR	
DATE	09.07.13		

A

DART AEROSPACE LTD	HAWKESBURY, ONTARIO, CANADA	REV. B
		SHEET 1 OF 1
		SCALE
		NTS

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 HAWKESBURY AVENUE, HAWKESBURY, ONTARIO,
 CANADA P1J 1L1. TEL: 905-885-2000. FAX:
 905-885-2001. E-MAIL: DART@DART.AERO

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+680.250x01.500
 DATE: MAY 19 2018

PO / BATCH NO.: 039877/5072718

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	Astun B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat# 68549
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-19 MAY 19 2018</u>	SIGNED OFF BY: _____
	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1.500X02.500 PO / BATCH NO.: 039877/5072719
 DATE: MAY 19 2018

MATERIAL CERT REC'D: Y-ES
 QUANTITY RECEIVED: 241
 QUANTITY INSPECTED: 241
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Astm B221</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>heat FF386350</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS</u>	SIGNED OFF BY:	
DATE:	<u>9-8 MAY 19 2018</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

△ B

PART NUMBER:

M6061T6B| T.TTT | X | WW:WWWW

| THICK | WIDTH
WHERE "T.TTT" = THICKNESS IN INCHES
"WW:WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-01
JW

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211(B221(ZN D7-1))	CP	09.07.13
A	NEW (ISSUE)	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	REV. B
CHECKED		DRAWING NO.	SHEET 1 OF 1
MFG. APPR.		M6061T6B	SCALE
APPROVED		TITLE	NTS
DE APPR.		6061-T6 BAR	
DATE	09.07.13		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6B2.250X2.250 PO / BATCH NO.: 038877/5072720
 DATE: MAY 19 2018

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.250
 THICKNESS RECEIVED: 2.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Actm B221</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Heat# 200779020</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 MAY 19 2018</u>	SIGNED OFF BY: _____
	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 6061-T67651T6511T6511T62 ALUMINUM BAR
SPECIFICATION: QQ-A-2258 OR AMS-QQA-2258 (OR AMS 4117/4128/4154/1161)

OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6S T TTT X WWW WWW
 WHERE "T.TT" = THICKNESS IN INCHES
 "WWW" = WIDTH
 "TTT" = LENGTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

"WW.WWW" = WIB IN INCHES

B		REWORK, DOA-250/DOE OPTION, REFORMAT NOTES, ADD ASTM B21/B22 (2D/3D/4D)		
A	REV	NEW ISSUE	DESCRIPTION	
DESIGN	DRAWN	DS	DART AEROSPACE LTD HAWKSBURY, ONTARIO, CANADA	DS BY DATE
CHECKED		<i>[Signature]</i>	DRAWING NO. M606116B	REV. B
MFG. APPR.	APPROVED	<i>[Signature]</i>	TITLE	SHEET OF 1-OF-1
DE APPR.	DATE	6061-16 BAR	SCALE	NTS
09.07.13				
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RELEASED
2009-06-02
[Signature]

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6el6176S-188
 DATE: MAY 19 2018

PO / BATCH NO.: 039872/5072721

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 32 ft²
 QUANTITY INSPECTED: 32 ft²
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .188
 THICKNESS RECEIVED: .188
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	Astm B209
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat # 6161503
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DUR D	WEBSTER

testers located in the Quality Office

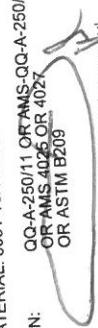
QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE:	<u>8-89</u> <u>MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4026 OR 4027
OR ASTM B209



△ PART NUMBER:

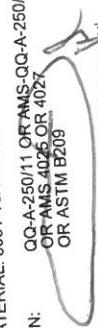
WHERE "XXX" = THICKNESS (IN INCHES)
AND "W,WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE:
XXX BY 4FT BY 8FT FOR SHEET

△ PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4026 OR 4027
OR ASTM B209



△ PART NUMBER:

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W,WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

△ PREFERRED SIZE:
XXX BY 4FT BY 8FT FOR SHEET

REV.	DESIGN DRAWN	DS	ML	17.12.13
C	ADD PLATE AND T651 SPEC		CP	08.07.13
B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1), REF PAR 08-020A		RF	01.06.08
A	NEW ISSUE	DESCRIPTION	BY	DATE
		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
		TITLE M6061-T6S		
		CP 49		
		6061-T6 SHEET/PLATE SPEC		
		NTS		
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RELEASED
2010 MAR 13 49
EE, 18-645

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-R0.750
 DATE: MAY 19 2018

PO / BATCH NO.: 039877/5072723

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>AMS5643</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat# 9560264-L5011</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-8-18</u> <u>MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
 GRAIN MUST BE ALONG LENGTH OF BAR
 MINIMUM YIELD STRENGTH PER TABLE
 MINIMUM ULTIMATE STRENGTH PER TABLE
(Signature)
 AMS 5643 OR ASTM A564
 SPECIFICATION:
 PART NUMBER:
 M17-4-HHHHH-R | X.XXX | WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
 COND | O.D. | X.XXX = DIAMETER (IN INCHES)

C MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
COND A	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR
 TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
 MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR
 APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
 CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND
 SHOULD ALWAYS BE HEAT TREATED

C EXAMPLES:

PART NUMBER
 M17-4-RG-000
 M17-4-H900-R2.500
 M17-4-H1025-R3.250
 M17-4-CONDA-R0.750
 PART
 4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
 2.500" DIAMETER BAR H900 CONDITION
 3.250" DIAMETER BAR H1025 CONDITION
 0.750" DIAMETER BAR A CONDITION

C	ADDED MATERIAL CONDITION (CIR 17-107)			NO	17-09-14
B	REFORMATTED DWG. S17400(DTPE-630 ADDED TO PURCHASE MATERIAL (ZN D-1), ADD A564 SPEC (CB-1), REF PAR DB-020A			VS	10-05-20
A	NEW ISSUE			CP	05-03-16
REV.	DESCRIPTION			BY DATE	
APPROVED	NO	DART AEROSPACE LTD			
DRAWN	NO	HAWKESBURY, ONTARIO, CANADA			REV. C
CHECKED	CP	DRAWING NO.			SHEET 1 OF 1
MFG. APPR.	RA	M17-4-R			SCALE
APPROVED	WM	TITLE			NITS
DE APPR.	CP	M17-4 SS ROUND BAR			
DATE	17-09-14	COPYRIGHT © 2005 BY DART AEROSPACE LTD			
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RELEASED		2017-10-31	By	EN17-728
A	3	4	5	6

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R1.000
 DATE: MAY 19 2018

PO / BATCH NO.: 039877/5072724

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<u>Y</u> <u>N</u>	
CORRECT FINISH	<u>Y</u> <u>N</u>	
CORROSION	<u>Y</u> <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> <u>N</u>	<i>Astan A582</i>
CORRECT THICKNESS	<u>Y</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> <u>N</u>	<i>Heat it Good</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> <u>N</u>	
CORRECT M# ON THE MATERIAL	<u>Y</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u> <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u> <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>MAY 19 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)



SPECIFICATION:
ASTM A562
PART NUMBER:
M303R[D.DDD]
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

C

D

B

C

D

RELEASED
2010-07-07
[Signature]

B	REFORMAT DWG. ADD SPECS (ZN DB-1), REF PAR 08-020A	CD	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>		
MFG. APPR.	<i>[Signature]</i>		
APPROVED	<i>[Signature]</i>		
DE APPR.	<i>[Signature]</i>		
DATE	10.01.05		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M303R
TITLE 303 ROUND BAR
NIT

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SHEET 1 OF 1
SCALE